

Subject Index

Volume 53 (1990)

- additives, apparent partial specific volumes, liposomes, DMPC, 211
- alkylglucopyranosides, glycolipids, synthesis, characterisation, properties, 141
- N*-alkyl-*N,N,N*-trimethylammonium ions, phosphatidylcholine bilayers, free volume, *trans-gauche* isomerization, spin probe ESR, 231
- analysis, dicholesteryl ether, disteryl ethers, synthesis, ¹H-¹³C-NMR, mass spectrometry, 77
- analysis, partially hydrogenated egg phospholipid, *trans* fatty acids, transition temperatures, peroxidation, stability, 91
- ansamycin, differential scanning calorimetry, clofazimine, CGP7040, pentamidine, phosphatidylcholine, phosphatidylglycerol, 361
- anthrylvinyl lipid probes, fluorescence lifetime, radiative lifetime, fluorescence anisotropy, 185
- antibody, platelet activating factor, hapten, 121
- apparent partial specific volumes, liposomes, DMPC, additives, 211
- arylsulfatase A, fluorescent sulfatides, long-wavelength-emission fluorophores, 165
- benzoylacylglycerol, monomycoloylglycerol, benzoyl monomycoloylglycerol, 357
- benzoyl monomycoloylglycerol, benzoylacylglycerol, monomycoloylglycerol, 357
- bipolar lipid, monolayer, surface pressure, electron microscopy, 341
- calcium, NMR, second moment, spin-lattice relaxation, phosphatidylcholine, ion, 47
- calorimetry, dilauryl phosphatidylcholine, liposomes, phase properties, 177
- cannabinoids in membranes, neutron diffraction, cholesterol and cannabinoids, mechanism of psychoactivity, 331
- CGP7040, differential scanning calorimetry, ansamycin, clofazimine, pentamidine, phosphatidylcholine, phosphatidylglycerol, 361
- characterisation, glycolipids, synthesis, properties, alkylglucopyranosides, 141
- cholesterol, fluorescent lipid, phase fluorometry, phosphatidylethanolamine, diacylglycerol, lipid transitions, 321
- cholesterol and cannabinoids, cannabinoids in membranes, neutron diffraction, mechanism of psychoactivity, 331
- clofazimine, differential scanning calorimetry, ansamycin, CGP7040, pentamidine, phosphatidylcholine, phosphatidylglycerol, 361
- 1-*S*-decanoyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, synthesis, trityl-glycidol, thiodecanic acid, 1-*S*-dodecyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 1,2-bis(*S*-decanoyl)-1,2-dithio-*sn*-glycero-3-glycero-3-phosphocholine, 115
- 1,2-bis(*S*-decanoyl)-1,2-dithio-*sn*-glycero-3-phosphocholine, synthesis, trityl-glycidol, thiodecanic acid, 1-*S*-dodecyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, decanoyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 115
- diacylglycerol, fluorescent lipid, phase fluorometry, phosphatidylethanolamine, cholesterol, lipid transitions, 321
- diazomethane, long-chain fatty acids, octadeca-9,12-dienoic acid, 13-hydroxyoctadeca-9,11-dienoic acid, methyl ester, 2-hydroxyethyl ester, ¹³C-NMR, GC/MS, 27
- dicholesteryl ether, disteryl ethers, synthesis, analysis, ¹H-¹³C-NMR, mass spectrometry, 77
- differential scanning calorimetry, ansamycin, clofazimine, CGP7040, pentamidine, phosphatidylcholine, phosphatidylglycerol, 361
- dilauryl phosphatidylcholine, liposomes, calorimetry, phase properties, 177
- dipalmitoyl phosphatidylcholine, pulmonary surfactants, lipid-protein interactions, surfactant apoproteins, hydrophobic peptide, surface adsorption, 157
- disteryl ethers, dicholesteryl ether, synthesis, analysis, ¹H-¹³C-NMR, mass spectrometry, 77
- dithiastearate, sulfur, fatty ester, physical properties, synthesis, 203
- DMPC, apparent partial specific volumes, liposomes, additives, 211
- DMPE, phospholipid synthesis, DMPS, phosphite triester, reductive fragmentation, 65
- DMPS, phospholipid synthesis, DMPE, phosphite triester, reductive fragmentation, 65
- 1-*S*-dodecyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, synthesis, trityl-glycidol, thiodecanic acid, 1,2-bis(*S*-decanoyl)-1,2-dithio-*sn*-glycero-3-phosphocholine, 1-*S*-decanoyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 115
- drugs, liposomes, encapsulation, pH gradients, 37
- DSC, triacetylphosphorylcholine, monomolecular layer, X-ray diffraction, FABMS, 373
- electron microscopy, monolayer, bipolar lipid, surface pressure, 341

- electron spin resonance, saturation transfer ESR, α -tocopherol, vitamin E, spin labeling, phospholipid liposomes, 17
- encapsulation, liposomes, drugs, pH gradients, 37
- enzyme, phosphatidylcholine, lecithin, micelle, microemulsion, protein, review, 265
- erythrocyte, membrane, peroxidation, parinaric acid, vitamin E, vitamin C, 309
- FAB-MS, human globotriaosylceramide, two-dimensional ^1H -NMR, 85
- FABMS, triacontylphosphorylcholine, monomolecular layer, X-ray diffraction, DSC, 373
- fatty ester, dithiastearate, sulfur, physical properties, synthesis, 203
- fluorescence, NBD-labeled lipid, model membrane, resonance energy transfer, location, ionization, 1
- fluorescence anisotropy, anthrylvinyl lipid probes, fluorescence lifetime, radiative lifetime, 185
- fluorescence lifetime, anthrylvinyl lipid probes, radiative lifetime, fluorescence anisotropy, 185
- fluorescence spectroscopy, lipid hydration, phosphatidylethanolamine, non-bilayer phases, lipid phase transition, 191
- fluorescent lipid, phase fluorometry, phosphatidylethanolamine, cholesterol, diacylglycerol, lipid transitions, 321
- fluorescent sulfatides, long-wavelength-emission fluorophores, arylsulfatase A, 165
- free volume, phosphatidylcholine bilayers, *N*-alkyl-*N,N,N*-trimethylammonium ions, *trans-gauche* isomerization, spin probe ESR, 231
- C-glucopyranosides, steroidal C-glucosides, C-glucosides, C-glucosidation, steroids, 219
- C-glucosidation, steroidal C-glucosides, C-glucopyranosides, C-glucosides, steroids, 219
- C-glucosides, steroidal C-glucosides, C-glucopyranosides, C-glucosidation, steroids, 219
- glycolipids, synthesis, characterisation, properties, alkylglucopyranosides, 141
- haptens, platelet activating factor, antibody, 121
- human globotriaosylceramide, two-dimensional ^1H -NMR, FAB-MS, 85
- hydrophobic peptide, pulmonary surfactants, lipid-protein interactions, dipalmitoyl phosphatidylcholine, surfactant apoproteins, surface adsorption, 157
- 2-hydroxyethyl ester, long-chain fatty acids, octadeca-9,12-dienoic acid, 13-hydroxyoctadeca-9,11-dienoic acid, diazomethane, methyl ester, ^{13}C -NMR, GC/MS, 27
- 13-hydroxyoctadeca-9,11-dienoic acid, long-chain fatty acids, octadeca-9,12-dienoic acid, diazomethane, methyl ester, 2-hydroxyethyl ester, ^{13}C -NMR, GC/MS, 27
- immunostimulants, polymeric vesicles, muramyl peptides, 347
- inositol, phosphatidylinositol, inositol phosphate, phosphonates, phospholipase C, 103
- inositol phosphate, phosphatidylinositol, inositol, phosphonates, phospholipase C, 103
- ion, NMR, second moment, spin-lattice relaxation, phosphatidylcholine, calcium, 47
- ionization, NBD-labeled lipid, model membrane, fluorescence, resonance energy transfer, location, 1
- lecithin, phosphatidylcholine, micelle, microemulsion, protein, enzyme, review, 265
- lipid-protein interactions, pulmonary surfactants, dipalmitoyl phosphatidylcholine, surfactant apoproteins, hydrophobic peptide, surface adsorption, 157
- lipid hydration, phosphatidylethanolamine, non-bilayer phases, fluorescence spectroscopy, lipid phase transition, 191
- lipid phase transition, lipid hydration, phosphatidylethanolamine, non-bilayer phases, fluorescence spectroscopy, 191
- lipid transitions, fluorescent lipid, phase fluorometry, phosphatidylethanolamine, cholesterol, diacylglycerol, 321
- liposomes, apparent partial specific volumes, DMPC, additives, 211
- liposomes, dilauryl phosphatidylcholine, calorimetry, phase properties, 177
- liposomes, drugs, encapsulation, pH gradients, 37
- location, NBD-labeled lipid, model membrane, fluorescence, resonance energy transfer, ionization, 1
- long-chain fatty acids, octadeca-9,12-dienoic acid, 13-hydroxyoctadeca-9,11-dienoic acid, diazomethane, methyl ester, 2-hydroxyethyl ester, ^{13}C -NMR, GC/MS, 27
- long-wavelength-emission fluorophores, fluorescent sulfatides, arylsulfatase A, 165
- mass spectrometry, dicholesteryl ether, disteryl ethers, synthesis, analysis, ^1H - ^{13}C -NMR, 77
- mechanism of psychoactivity, cannabinoids in membranes, neutron diffraction, cholesterol and cannabinoids, 331
- membrane, erythrocyte, peroxidation, parinaric acid, vitamin E, vitamin C, 309
- methyl ester, long-chain fatty acids, octadeca-9,12-dienoic acid, 13-hydroxyoctadeca-9,11-dienoic acid, diazomethane, 2-hydroxyethyl ester, ^{13}C -NMR, GC/MS, 27
- micelle, phosphatidylcholine, lecithin, microemulsion, protein, enzyme, review, 265
- microemulsion, phosphatidylcholine, lecithin, micelle, protein, enzyme, review, 265
- model membrane, NBD-labeled lipid, fluorescence, resonance energy transfer, location, ionization, 1
- molecular modelling, saccharide-lipid interactions, 243
- monolayer, bipolar lipid, surface pressure, electron microscopy, 341
- monolayer, platelet activating factor, phospholipid, pyrene fluorescence, phospholipase A_2 , 129
- monomolecular layer, triacontylphosphorylcholine, X-ray diffraction, DSC, FABMS, 373

- monomycologlycerol, benzoylacylglycerol, benzoyl monomycologlycerol, 357
- muramyl peptides, polymeric vesicles, immunostimulants, 347
- NBD-labeled lipid, model membrane, fluorescence, resonance energy transfer, location, ionization, 1
- neutron diffraction, cannabinoids in membranes, cholesterol and cannabinoids, mechanism of psychoactivity, 331
- NMR, second moment, spin-lattice relaxation, phosphatidylcholine, calcium, ion, 47
- ^{13}C -NMR, GC/MS, long-chain fatty acids, octadeca-9,12-dienoic acid, 13-hydroxyoctadeca-9,11-dienoic acid, diazomethane, methyl ester, 2-hydroxyethyl ester, 27
- ^1H - ^{13}C -NMR, dicholesteryl ester, disteryl ethers, synthesis, analysis, mass spectrometry, 77
- non-bilayer phases, lipid hydration, phosphatidylethanolamine, fluorescence spectroscopy, lipid phase transition, 191
- octadeca-9,12-dienoic acid, long-chain fatty acids, 13-hydroxyoctadeca-9,11-dienoic acid, diazomethane, methyl ester, 2-hydroxyethyl ester, ^{13}C -NMR, GC/MS, 27
- oligoglycerol, w/o emulsifier, oligoglycerol ester, oligoricinoleic acid, oligoricinoleoyl ester, oligoricinoleoyl oligoglycerols, 289
- oligoglycerol ester, w/o emulsifier, oligoglycerol, oligoricinoleic acid, oligoricinoleoyl ester, oligoricinoleoyl oligoglycerols, 289
- oligoricinoleic acid, w/o emulsifier, oligoglycerol, oligoglycerol ester, oligoricinoleoyl ester, oligoricinoleoyl oligoglycerols, 289
- oligoricinoleoyl ester, w/o emulsifier, oligoglycerol, oligoglycerol ester, oligoricinoleic acid, oligoricinoleoyl oligoglycerols, 289
- oligoricinoleoyl oligoglycerols, w/o emulsifier, oligoglycerol, oligoglycerol ester, oligoricinoleic acid, oligoricinoleoyl ester, 289
- parinaric acid, erythrocyte, membrane, peroxidation, vitamin E, vitamin C, 309
- partially hydrogenated egg phospholipid, *trans* fatty acids, transition temperatures, peroxidation, stability, analysis, 91
- pentamidine, differential scanning calorimetry, ansamycin, clofazimine, CGP7040, phosphatidylcholine, phosphatidylglycerol, 361
- peroxidation, erythrocyte, membrane, parinaric acid, vitamin E, vitamin C, 309
- peroxidation, partially hydrogenated egg phospholipid, *trans* fatty acids, transition temperatures, stability, analysis, 91
- phase fluorometry, fluorescent lipid, phosphatidylethanolamine, cholesterol, diacylglycerol, lipid transitions, 321
- phase properties, dilauryl phosphatidylcholine, liposomes, calorimetry, 177
- phosphatidyl inositol isopropylidenes, phosphatidyl inositol 4-phosphate, phosphatidyl inositol-6-phosphate, 53
- phosphatidylcholine, differential scanning calorimetry, ansamycin, clofazimine, CGP7040, pentamidine, phosphatidylglycerol, 361
- phosphatidylcholine, lecithin, micelle, microemulsion, protein, enzyme, review, 265
- phosphatidylcholine, NMR, second moment, spin-lattice relaxation, calcium, ion, 47
- phosphatidylcholine bilayers, *N*-alkyl-*N,N,N*-trimethylammonium ions, free volume, *trans-gauche* isomerization, spin probe ESR, 231
- phosphatidylethanolamine, fluorescent lipid, phase fluorometry, cholesterol, diacylglycerol, lipid transitions, 321
- phosphatidylethanolamine, lipid hydration, non-bilayer phases, fluorescence spectroscopy, lipid phase transition, 191
- phosphatidylglycerol, differential scanning calorimetry, ansamycin, clofazimine, CGP7040, pentamidine, phosphatidylcholine, 361
- phosphatidylinositol, inositol, inositol phosphate, phosphonates, phospholipase C, 103
- phosphatidyl inositol-6-phosphate, phosphatidyl inositol isopropylidenes, phosphatidyl inositol 4-phosphate, 53
- phosphatidyl inositol 4-phosphate, phosphatidyl inositol isopropylidenes, phosphatidyl inositol-6-phosphate, 53
- phosphite triester, phospholipid synthesis, DMPE, DMPS, reductive fragmentation, 65
- phospholipase A_2 , platelet activating factor, phospholipid, pyrene fluorescence, monolayer, 129
- phospholipase C, phosphatidylinositol, inositol, inositol phosphate, phosphonates, 103
- phospholipid, platelet activating factor, pyrene fluorescence, phospholipase A_2 , monolayer, 129
- phospholipid liposomes, electron spin resonance, saturation transfer ESR, α -tocopherol, vitamin E, spin labeling, 17
- phospholipid synthesis, DMPE, DMPS, phosphite triester, reductive fragmentation, 65
- phosphonates, phosphatidylinositol, inositol, inositol phosphate, phospholipase C, 103
- physical properties, dithiastearate, sulfur, fatty ester, synthesis, 203
- pH gradients, liposomes, drugs, encapsulation, 37
- platelet activating factor, antibody, hapten, 121
- platelet activating factor, phospholipid, pyrene fluorescence, phospholipase A_2 , monolayer, 129
- polymeric vesicles, muramyl peptides, immunostimulants, 347
- properties, glycolipids, synthesis, characterisation, alkylglucopyranosides, 141
- protein, phosphatidylcholine, lecithin, micelle, microemulsion, enzyme, review, 265
- pulmonary surfactants, lipid-protein interactions, dipalmitoyl phosphatidylcholine, surfactant apoproteins, hydrophobic peptide, surface adsorption, 157
- pyrene fluorescence, platelet activating factor, phospholipid, phospholipase A_2 , monolayer, 129

- radiative lifetime, anthrylvinyl lipid probes, fluorescence lifetime, fluorescence anisotropy, 185
- reductive fragmentation, phospholipid synthesis, DMPE, DMPS, phosphite triester, 65
- resonance energy transfer, NBD-labeled lipid, model membrane, fluorescence, location, ionization, 1
- review, phosphatidylcholine, lecithin, micelle, microemulsion, protein, enzyme, 265
- saccharide-lipid interactions, molecular modelling, 243
- saturation transfer ESR, electron spin resonance, α -tocopherol, vitamin E, spin labeling, phospholipid liposomes, 17
- second moment, NMR, spin-lattice relaxation, phosphatidylcholine, calcium, ion, 47
- spin-lattice relaxation, NMR, second moment, phosphatidylcholine, calcium, ion, 47
- spin labeling, electron spin resonance, saturation transfer ESR, α -tocopherol, vitamin E, phospholipid liposomes, 17
- spin probe ESR, phosphatidylcholine bilayers, *N*-alkyl *N,N,N*-trimethylammonium ions, free volume, *trans-gauche* isomerization, 231
- stability, partially hydrogenated egg phospholipid, *trans* fatty acids, transition temperatures, peroxidation, analysis, 91
- steroidic *C*-glucosides, *C*-glucopyranosides, *C*-glucosides, *C*-glucosidation, steroids, 219
- steroids, steroidic *C*-glucosides, *C*-glucopyranosides, *C*-glucosides, *C*-glucosidation, 219
- sulfur, dithiastearate, fatty ester, physical properties, synthesis, 203
- surface adsorption, pulmonary surfactants, lipid-protein interactions, dipalmitoyl phosphatidylcholine, surfactant apoproteins, hydrophobic peptide, 157
- surface pressure, monolayer, bipolar lipid, electron microscopy, 341
- surfactant apoproteins, pulmonary surfactants, lipid-protein interactions, dipalmitoyl phosphatidylcholine, hydrophobic peptide, surface adsorption, 157
- synthesis, trityl-glycidol, thiodecanic acid, 1-*S*-dodecyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 1,2-bis(*S*-decanoyl)-1,2-dithio-*sn*-glycero-3-phosphocholine, 1-*S*-decanoyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 115
- synthesis, dicholesteryl ether, disteryl ethers, analysis, ^1H - ^{13}C -NMR, mass spectrometry, 77
- synthesis, dithiastearate, sulfur, fatty ester, physical properties, 203
- synthesis, glycolipids, characterisation, properties, alkylglucopyranosides, 141
- thiodecanic acid, synthesis, trityl-glycidol, 1-*S*-dodecyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 1,2-bis(*S*-decanoyl)-1,2-dithio-*sn*-glycero-3-phosphocholine, 1-*S*-decanoyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 115
- α -tocopherol, electron spin resonance, saturation transfer ESR, vitamin E, spin labeling, phospholipid liposomes, 17
- trans-gauche* isomerization, phosphatidylcholine bilayers, *N*-alkyl-*N,N,N*-trimethylammonium ions, free volume, spin probe ESR, 231
- transition temperatures, partially hydrogenated egg phospholipid, *trans* fatty acids, peroxidation, stability, analysis, 91
- trans* fatty acids, partially hydrogenated egg phospholipid, transition temperatures, peroxidation, stability, analysis, 91
- triacontylphosphorylcholine, monomolecular layer, X-ray diffraction, DSC, FABMS, 373
- trityl-glycidol, synthesis, thiodecanic acid, 1-*S*-dodecyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 1,2-bis(*S*-decanoyl)-1,2-dithio-*sn*-glycero-3-phosphocholine, decanoyl-2-*O*-decanoyl-1-thio-*sn*-glycero-3-phosphocholine, 115
- two-dimensional ^1H -NMR, human globotriaosylceramide, FAB-MS, 85
- vitamin C, erythrocyte, membrane, peroxidation, parinaric acid, vitamin E, 309
- vitamin E, electron spin resonance, saturation transfer ESR, α -tocopherol, spin labeling, phospholipid liposomes, 17
- vitamin E, erythrocyte, membrane, peroxidation, parinaric acid, vitamin C, 309
- w/o emulsifier, oligoglycerol, oligoglycerol ester, oligoricinoleic acid, oligoricinoleoyl ester, oligoricinoleoyl oligoglycerols, 289
- X-ray diffraction, triacontylphosphorylcholine, monomolecular layer, DSC, FABMS, 373

Author Index

Volume 53 (1990)

Ahmed, F.U.	331	Hall, S.B.	157
Aleo, M.F.	165	Harrigan, P.R.	37
Allevi, P.	219	Hendrickson, E.K.	115
Anastasia, M.	219	Hendrickson, H.S.	115
Anderson, L.A.	27	Higuchi, T.	373
		Hönig, H.	347
Bakare, O.	203	Ioned, T.	357
Balgavý, P.	231	Jaques, L.W.	27
Bally, M.B.	37	Johansson, L.B.Å.	185
Bergelson, L.D.	185	Keana, J.F.W.	103
Bergenthal, D.	77	Keenan, R.W.	53
Boicelli, C.A.	265	Kinnunen, P.K.J.	129
Buchweitz, K.M.	65	Kinoshita, M.	373
		Kuypers, F.A.	309
Cannistraro, S.	17	Lang, J.	91
Casella, A.	165	Lemmen, P.	65
Chandrasekhar, I.	243	Lie Ken Jie, M.S.F.	203
Chattopadhyay, A.	1	Loughrey, H.C.	37
Chen, S.-Y.	321	Luisi, P.L.	265
Cheng, K.H.	191, 321	Madden, T.D.	37
Cheuk, T.	211	Marchesini, S.	165
Chiche, B.H.	361	Martel, P.	331
Ciuffreda, P.	219	Martin, F.	91
Cullis, P.R.	37	Mayer, L.D.	37
		Molotkovsky, J.G.	185
Dabrowski, J.	85	Moriya, A.	373
Dabrowski, U.	85	Nagumo, M.	243
Dagan, A.	165	Noda, N.	53
Debs, R.J.	361	Notter, R.H.	157
Devinsky, F.	231	Op den Kamp, J.A.F.	309
Düzgüneş, N.	361	Ortalano, D.M.	321
Egge, H.	85	Pedroso de Lima, M.C.	361
		Peter-Katalinić, J.	85
Fiecchi, A.	219	Prashad, M.	121
Finegold, L.	177	Preti, A.	165
Focher, B.	141	Proust, J.-E.	341
Fröling, A.	289	Redelmeier, T.E.	37
Gaber, B.	243	Reinish, L.W.	37
Gallova, J.	231		
Gatt, S.	165		
Giuliani, A.M.	265		
Graff, G.	27		
Griffith, O.H.	103		
Gulik, A.	341		

Röder, B.	85	Thuren, T.	129
Roelofsen, B.	309	Tilcock, C.P.S.	37
Rogers, J.A.	211	Tomesch, J.C.	121
Rudolph, B.R.	243	Torri, G.	141
Sandhoff, K.	85	van den Berg, J.J.M.	309
Savelli, G.	141	Venkitaraman, A.R.	157
Scala, A.	219	Vigo-Pelfrey, C.	91
Scannell, R.T.	27	Virtanen, J.A.	129
Schulte, E.	77	Volwerk, J.J.	103
Schwarzmann, G.	85		
Severcan, F.	17	Walde, P.	265
Shashidhar, M.S.	103	Wareing, J.R.	121
Shaw, W.A.	177	Weber, N.	77
Shibata, T.	47		
Singer, M.A.	177	Yamamoto, I.	373
Stumpf, R.	65	Yamauchi, K.	373
Tai, L.C.L.	37		
Tchoreloff, P.	341	Zenk, R.	347

